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1. 11.1-001: Development of commercial hand-held and backpack neutron detectors

Release Date: 06-13-2011Open Date: 06-15-2011Due Date: 07-18-2011Close Date: 07-18-2011

OBJECTIVE: Develop and commercialize neutron detector with matured technology to replace existing 3He-based thermal or fast neutron detectors for portable (hand-held and backpack) radioisotope identification devices, and active interrogation systems. DESCRIPTION: The Department of Homeland Security Domestic Nuclear Detection Office (DNDO) is developing new materials and technology for thermal and ...

SBIR Domestic Nuclear Detection Office

2. 11.1-002: Flexible Form Factor Radiation Monitor

Release Date: 06-13-2011Open Date: 06-15-2011Due Date: 07-18-2011Close Date: 07-18-2011

OBJECTIVE: Develop a radiation sensor to support search operations that has a variable or flexible form factor than current systems. The device(s) should be more sensitive, lower-cost, more be specific than current COTS approaches. DESCRIPTION: Certain scenarios involving the search or surveillance for nuclear or radiological materials of concern are best accomplished with a radiation monitoring d ...

SBIR Domestic Nuclear Detection Office

3. 1I.I-003: Growth & Characterization of New, Promising Advanced Scintillator Materials

Release Date: 06-13-2011Open Date: 06-15-2011Due Date: 07-18-2011Close Date: 07-18-2011

OBJECTIVE: Growth and characterization of single crystals of selected new scintillator materials which have been identified, through prior R&D program efforts, as being promising advanced materials with potential of high energy resolution, high efficiency, ease of growth of large size crystals, and low cost. Objective of this effort is to grow large enough crystals to enable characterization of en ...

SBIR Domestic Nuclear Detection Office

4. 001: Low Power Tri-axial Acoustic Sensor

Release Date: 04-29-2011Open Date: 05-12-2011Due Date: 06-28-2011Close Date: 06-28-2011

The U.S. Customs and Border Protection (CBP) use UGS units to detect personnel, vehicles, and aircraft engaged in illegal activity at the U.S. border. The UGS units consist of: sensor(s) for detecting activity; a buried housing that contains a processing unit that interprets the received signals from the sensor(s) and performs administrative and control tasks; a radio for communicating alarms back ...

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5. 002: Improved Wipes for Surface Sampling of Chemical Agents on Porous Materials

Release Date: 04-29-2011Open Date: 05-12-2011Due Date: 06-28-2011Close Date: 06-28-2011

The Department of Homeland Security (DHS) has a need for a novel surface wipe material that more efficiently removes low volatility chemical agent contamination from porous and absorptive surfaces (e.g., uncoated and coated concrete, painted wallboard, unglazed ceramic tile) than current cellulosic-based, gauze-type, wipe materials. The novel wipe material will further demonstrate the ability to q ...

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6. 003: Mobile Device Forensics

Release Date: 04-29-2011Open Date: 05-12-2011Due Date: 06-28-2011Close Date: 06-28-2011

Within the area of mobile device forensics, the Department of Homeland Security (DHS) Science and Technology (S&T) Directorate is currently interested in three distinct facets of this complex problem area. Proposers can respond to any of the three sub-topics listed below (i.e., proposers may submit up to three different sub-topic proposals in response to this mobile device forensics topic). Sub-t ...

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7. 004: Short Standoff Checkpoint Detection System for Explosives

Release Date: 04-29-2011Open Date: 05-12-2011Due Date: 06-28-2011Close Date: 06-28-2011

Checkpoint security incorporates a wide variety of screening technologies and processes to detect person-borne threats and illicit objects, including weapons and explosives. Individuals attempting to circumvent checkpoint security have resorted to a variety of techniques to avoid detection, including hiding threat or illicit objects, but minute quantities of trace explosives may remain on their pe ...

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8. 005: Iris Image Quality Tool Suite for Biometric Recognition

Release Date: 04-29-2011Open Date: 05-12-2011Due Date: 06-28-2011Close Date: 06-28-2011

Biometric system performance depends on the quality of the acquired input samples. If sample quality can be improved, whether by sensor design, user interface design, or standards compliance, better performance can be realized. For those aspects of quality that cannot be designed-in, an ability to analyze the image and identify recognition-related defects and problems is needed. The ability to qui ...

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9. 006: Intelligent “Object” Symbology

Release Date: 04-29-2011Open Date: 05-12-2011Due Date: 06-28-2011Close Date: 06-28-2011

The Department of Homeland Security (DHS) is committed to using cutting- edge technologies and scientific talent in its quest to make America safer. The International Committee for Information Technology Standards (ANSI INCITS) 415-2006, Homeland Security Mapping Standard - Point Symbology for Emergency Management establishes point symbols focused exclusively on the emergency management and emerge ...

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